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NOTICE OF ALLOWANCE AND FEE(S) DUE

5642

7590

03/12/2008

SCIENTIFIC-ATLANTA, INC. INTELLECTUAL PROPERTY DEPARTMENT 5030 SUGARLOAF PARKWAY LAWRENCEVILLE, GA 30044 EXAMINER
SHIVERS, ASHLEY L

ART UNIT PAPER NUMBER

2619

DATE MAILED: 03/12/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,568	04/22/2004	William D. Woodward JR.	A-8799	6345

TITLE OF INVENTION: RATE LIMITED CONTROL MECHANISM FOR MPEG PCR DEJITTERING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/12/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including ed below or directed oth	g the Patent, advance of the lerwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees w pondence address;	vill be r and/or	nailed to the current (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use Blo	ock 1 for any change of address)	Fee(s) Transmittal. Thi	s certifi	cate cannot be used f	or domestic mailings of the for any other accompanying int or formal drawing, must
INTELLECTUA 5030 SUGARLO	7590 03/12 ATLANTA, INC. AL PROPERTY DE. DAF PARKWAY			Cer	tificate	of Mailing or Trans	
LAWRENCEVI	LLE, GA 30044		_				(Depositor's name)
			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
10/829,568 TITLE OF INVENTION	04/22/2004 i: RATE LIMITED CON	TROL MECHANISM FO	William D. Woodward JR. OR MPEG PCR DEJITTER			A-8799	6345
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	06/12/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
SHIVERS,	ASHLEY L	2619	370-516000	l			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			2. For printing on the part of the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorn listed, no name will be THE PATENT (print or two	3 registered patentely, ely, e firm (having as a gent) and the name meys or agents. If printed.	t attorno membe	er a 2	
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	ified below, no assignee eletion of this form is NO	data will appear on the pa T a substitute for filing an (B) RESIDENCE: (CITY	ntent. If an assign assignment. and STATE OR C	OUNTI	RY)	ocument has been filed for our country Government
4a. The following fee(s) Issue Fee Publication Fee (N		4lpermitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depo	se first reapply and. Form PTO-2038	ny previ	iously paid issue fee	shown above)
	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long	ger claiming SMAI	LL ENT	TTY status. See 37 Cl	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	nired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a regi	stered a	ttorney or agent; or th	ne assignee or other party in
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This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but 7 reginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th O NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indive e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publi minutes omments Tradem 5. SEND	c which is to file (and to complete, includir s on the amount of ti ark Office, U.S. Dep TO: Commissioner	d by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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SCIENTIFIC-AT	LANTA, INC.	SHIVERS, ASHLEY L		
	PROPERTY DEPART	ART UNIT	PAPER NUMBER	
5030 SUGARLOA LAWRENCEVILL		·	2619 DATE MAILED: 03/12/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 994 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 994 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/829,568	WOODWARD, WILLIAM D.			
Notice of Allowability	Examiner	Art Unit			
	ASHLEY L. SHIVERS	2619			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the c (OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	correspondence address uplication. If not included n will be mailed in due course. THIS			
1. \boxtimes This communication is responsive to <u>Application filed on 4/</u>	<u>′22/2004</u> .				
2. The allowed claim(s) is/are <u>1-20</u> .					
2.					
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4/22/04 & 8/18/05. 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amenda 8. ☑ Examiner's Statema 9. ☐ Other	(PTO-413), tte			

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DETAILED ACTION

Reasons for Allowance

- 1. Claims 1-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Woodhead et al. (U.S. Patent No. 5,640,388) teaches of removing jitter and correcting timestamps in a packet stream by receiving the packets with timestamps at a buffer at an intermediate site. From there the timestamps output at a controlled rate. Woodhead does not teach of averaging the timestamps and then taking the average of that average.

Christos Tryfonas and Anjuan Varma's "Restamping Approach to Clock

Recovery in MPEG-2 Systems Layer" teaches of receiving MPEG-2 packets with PCR

timestamps and sending them to the phase-locked loop. The article fails to teach of
sending the variable rate timing signal through another loop to get the stable timing
signal.

Dara (**U.S. Patent No. 5,184,350**) teaches of synthesizing clock signals at the first phase-locked loop and monitoring them at a second phase-locked loop. The second phase-locked loop can also synthesize the clock signal. The output goes into another phase-locked loop circuit, however the clock signals are not timestamps for received packets and that changes the scope of the art to one different than the subject matter claimed in this instant application.

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Therefore, the prior art of record fails to anticipate or render obvious the claimed combination of a method or system for guaranteeing an upper bound on output jitter while maintaining maximum loop bandwidth.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any response to this action should be **faxed** to (571) 273-8300 or **mailed** to:

Commissioner of Patents, P.O. Box 1450 Alexandria, VA 22313-1450

Hand delivered responses should be brought to: Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ASHLEY L. SHIVERS whose telephone number is (571)270-3523. The examiner can normally be reached on Monday-Thursday 8:00-6:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chirag Shah can be reached on (571) 272-3144. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ashley L Shivers/ Examiner, Art Unit 2619 2/20/2008

/Chirag G Shah/ Supervisory Patent Examiner, Art Unit 2619